



SEQUENCE LISTING

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RAUM, TOBIAS

<120> NOVEL METHOD FOR THE PRODUCTION OF ANTI-HUMAN ANTIGEN
RECEPTORS AND USES THEREOF

<130> 38164000

<140> 09/403,107

<141> 1999-10-14

<160> 152

<170> PatentIn Ver. 2.1

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1 5 10

<210> 111

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 111

Leu Val Gln Asn Ser Ser Gln Lys Thr Gln Asn Asp Val

1 5 10

<210> 112

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 112

Gln Asn Ser Ser Gln Lys Thr Gln Asn Asp Val Asp Ile

1 5 10

<210> 113

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 113

Ser Ser Gln Lys Thr Gln Asn Asp Val Asp Ile Ala Asp
1 5 10

<210> 114

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 114

Gln Lys Thr Gln Asn Asp Val Asp Ile Ala Asp Val Ala
1 5 10

<210> 115

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 115

Thr Gln Asn Asp Val Asp Ile Ala Asp Val Ala Tyr Tyr
1 5 10

<210> 116

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 116

Trp Asp Val Asp Ile Ala Asp Val Ala Tyr Tyr Phe Glu
1 5 10

<210> 117
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: SYNTHETIC

<400> 117
Val Asp Ile Ala Asp Val Ala Tyr Tyr Phe Glu Lys Asp
1 5 10

<210> 118
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: SYNTHETIC

<400> 118
Ile Ala Asp Val Ala Tyr Tyr Phe Glu Lys Asp Val Lys
1 5 10

<210> 119
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: SYNTHETIC

<400> 119
Asp Val Ala Tyr Tyr Phe Glu Lys Asp Val Lys Gly Glu
1 5 10

<210> 120
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: SYNTHETIC

<400> 120

Ala Tyr Tyr Phe Glu Lys Asp Val Lys Gly Glu Ser Leu

1 5 10

<210> 121

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 121

Tyr Phe Glu Lys Asp Val Lys Gly Glu Ser Leu Phe His

1 5 10

<210> 122

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 122

Glu Lys Asp Val Lys Gly Glu Ser Leu Phe His Ser Lys

1 5 10

<210> 123

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 123

Asp Val Lys Gly Glu Ser Leu Phe His Ser Lys Lys Met

1 5 10

<210> 124

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 124

Lys Gly Glu Ser Leu Phe His Ser Lys Lys Met Asp Leu
1 5 10

<210> 125

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 125

Glu Ser Leu Phe His Ser Lys Lys Met Asp Leu Thr Val
1 5 10

<210> 126

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 126

Leu Phe His Ser Lys Lys Met Asp Leu Thr Val Asn Gly
1 5 10

<210> 127

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 127

His Ser Lys Lys Met Asp Leu Thr Val Asn Gly Glu Gln
1 5 10

<210> 128
<211> 13
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: SYNTHETIC

<400> 128
Lys Lys Met Asp Leu Thr Val Asn Gly Glu Gln Leu Asp
1 5 10

<210> 129
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: SYNTHETIC

<400> 129
Met Asp Leu Thr Val Asn Gly Glu Gln Leu Asp Leu Asp
1 5 10

<210> 130
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: SYNTHETIC

<400> 130
Leu Thr Val Asn Gly Glu Gln Leu Asp Leu Asp Pro Gly
1 5 10

<210> 131
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: SYNTHETIC

<400> 131

Val Asn Gly Glu Gln Leu Asp Leu Asp Pro Gly Gln Thr
1 5 10

<210> 132
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: SYNTHETIC

<400> 132
Gly Glu Gln Leu Asp Leu Asp Pro Gly Gln Thr Leu Ile
1 5 10

<210> 133
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: SYNTHETIC

<400> 133
Gln Leu Asp Leu Asp Pro Gly Gln Thr Leu Ile Tyr Tyr
1 5 10

<210> 134
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: SYNTHETIC

<400> 134
Asp Leu Asp Pro Gly Gln Thr Leu Ile Tyr Tyr Val Asp
1 5 10

<210> 135
<211> 13
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 135

Asp Pro Gly Gln Thr Leu Ile Tyr Tyr Val Asp Glu Lys
1 5 10

<210> 136

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 136

Gly Gln Thr Leu Ile Tyr Tyr Val Asp Glu Lys Ala Pro
1 5 10

<210> 137

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 137

Thr Leu Ile Tyr Tyr Val Asp Glu Lys Ala Pro Glu Phe
1 5 10

<210> 138

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SYNTHETIC

<400> 138

Ile Tyr Tyr Val Asp Glu Lys Ala Pro Glu Phe Ser Met
1 5 10

<210> 139

<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: SYNTHETIC

<400> 139
Tyr Val Asp Glu Lys Ala Pro Glu Phe Ser Met Gln Gly
1 5 10

<210> 140
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: SYNTHETIC

<400> 140
Asp Glu Lys Ala Pro Glu Phe Ser Met Gln Gly Leu Lys
1 5 10

<210> 141
<211> 321
<212> DNA
<213> HUMAN

<400> 141
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ggacagcctc ctaagctgct catttactgg cgatctaccc gggaatccgg ggtccctgac 180
cgattcagtg gcagcgggtc tgggacagat ttcactctca ccatcagcag tctacaacct 240
gaagattctg caacttacta ctgtcagcag agttacgaca tcccgtaacac ttttggccag 300
gggaccaagc tggagatcaa a 321

<210> 142
<211> 107
<212> PRT
<213> HUMAN

<400> 142
Glu Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Ser Ile Ser Ser Tyr
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
35 40 45

Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Ser Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Asp Ile Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 143

<211> 414

<212> DNA

<213> HUMAN

<400> 143

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tcctgtgcag cctctggatt caccttcagt agctatggca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaagtaa taaatactat 180
gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctgtgt attactgtgc gaaagatatg 300
gggtggggca gtggctggag accctactac tactacggtg tggacgtctg gggccaaggg 360
accacggtca ccgtctcctc agcaccacc aaggctccgg atgtgttccc tcta 414

<210> 144

<211> 138

<212> PRT

<213> HUMAN

<400> 144

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Lys Asp Met Gly Trp Gly Ser Gly Trp Arg Pro Tyr Tyr Tyr Tyr
 100 105 110

Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala
 115 120 125

Pro Thr Lys Ala Pro Asp Val Phe Pro Leu
 130 135

<210> 145
 <211> 372
 <212> DNA
 <213> HUMAN

<400> 145
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 ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaagtaa taaatactat 180
 gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
 ctgcaaataga acagcctgag agctgaggac acggctgtgt attactgtgc gaaaaaggaa 300
 ggctactggg gccagggaac cctggtcacc gtctcctcag caccaccaa ggctccggat 360
 gtgttcctc ta 372

<210> 146
 <211> 124
 <212> PRT
 <213> HUMAN

<400> 146
 Glu Val Gln Leu Leu Glu Ser Gly Gly Val Val Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Leu Gly Leu Glu Trp Val

35

40

45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Lys Lys Glu Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

Ser Ala Pro Thr Lys Ala Pro Asp Val Phe Pro Leu
 115 120

<210> 147

<211> 321

<212> DNA

<213> HUMAN

<400> 147

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 ggacagcctc ctaagctgct catttactgg gcactctacc gggaatccgg ggtccctgac 180
 cgattcagcg gcagtgaatc tgggacaaat tacactctca ccatcagcag cctgcagcct 240
 gaagattttg ctacttactt ttgtcaacag tctgacagtt tgccgatcac cttcggccaa 300
 gggacacgac tggacattca a 321

<210> 148

<211> 107

<212> PRT

<213> HUMAN

<400> 148

Glu Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
 20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35 40 45

Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly

50 55 60
 Ser Glu Ser Gly Thr Asn Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ser Asp Ser Leu Pro Ile
 85 90 95
 Thr Phe Gly Gln Gly Thr Arg Leu Asp Ile Gln
 100 105

<210> 149
 <211> 107
 <212> PRT
 <213> HUMAN

<400> 149
 Glu Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Ser Ile Ser Ser Tyr
 20 25 30
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35 40 45
 Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Ser Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Asp Ile Pro Tyr
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 150
 <211> 138
 <212> PRT
 <213> HUMAN

<400> 150
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Asp Met Gly Trp Gly Ser Gly Trp Arg Pro Tyr Tyr Tyr Tyr
100 105 110

Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala
115 120 125

Pro Thr Lys Ala Pro Asp Val Phe Pro Leu
130 135

<210> 151

<211> 124

<212> PRT

<213> HUMAN

<400> 151

Glu Val Gln Leu Leu Glu Ser Gly Gly Val Val Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys

85

90

95

Ala Lys Lys Glu Gly Tyr Tyr Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

Ser Ala Pro Thr Lys Ala Pro Asp Val Phe Pro Leu
 115 120

<210> 152

<211> 107

<212> PRT

<213> HUMAN

<400> 152

Glu Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
 20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35 40 45

Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60

Ser Glu Ser Gly Thr Asn Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ser Asp Ser Leu Pro Ile
 85 90 95

Thr Phe Gly Gln Gly Thr Arg Leu Asp Ile Gln
 100 105

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